

FIG. 1A

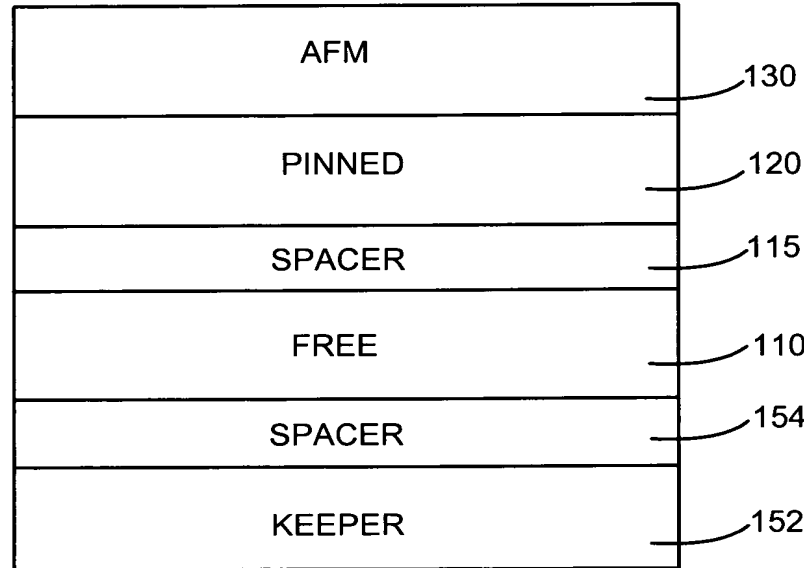


FIG. 1B

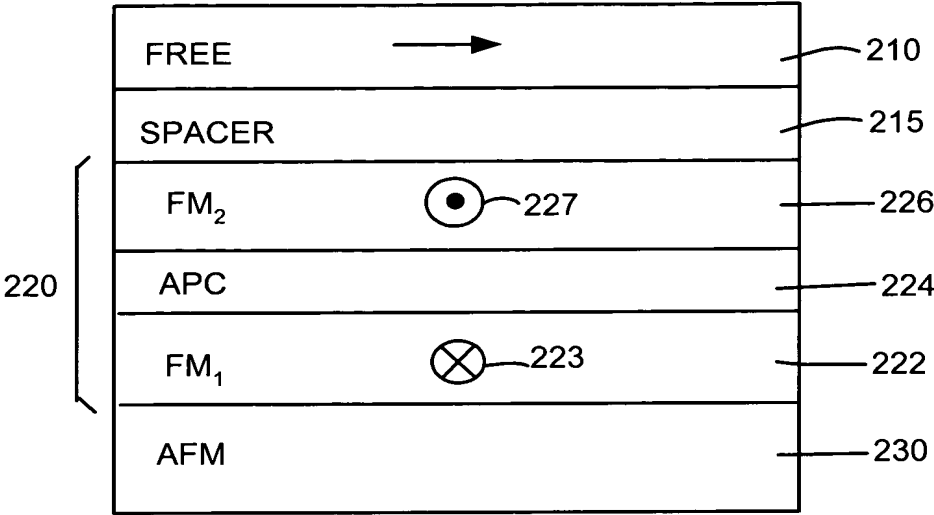


FIG. 2A

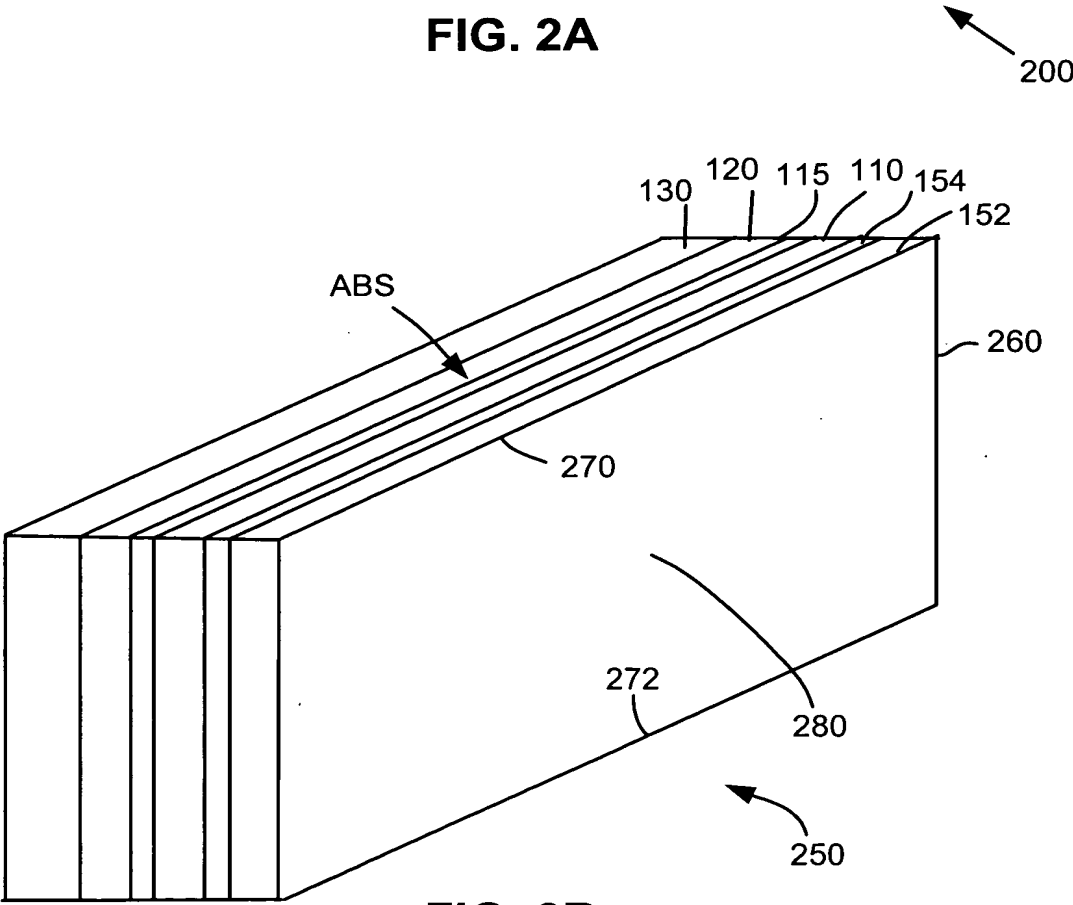


FIG. 2B

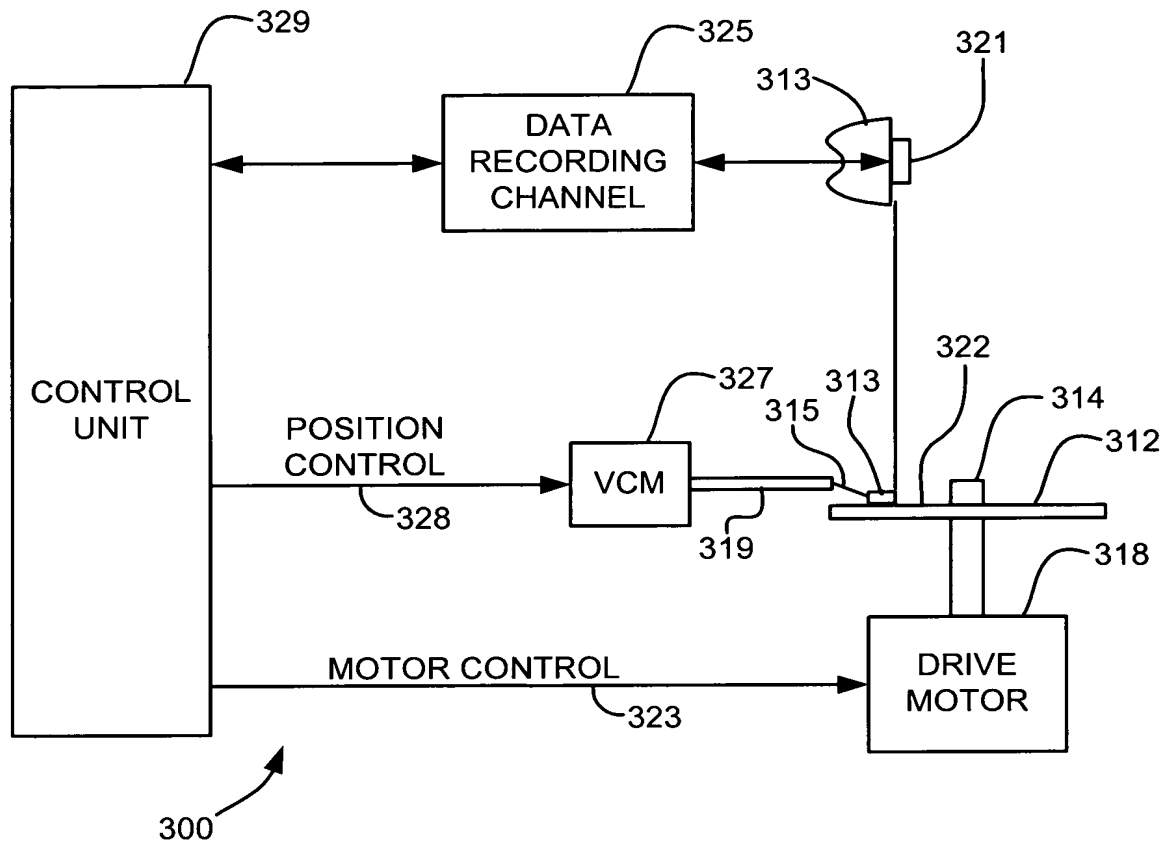


FIG. 3

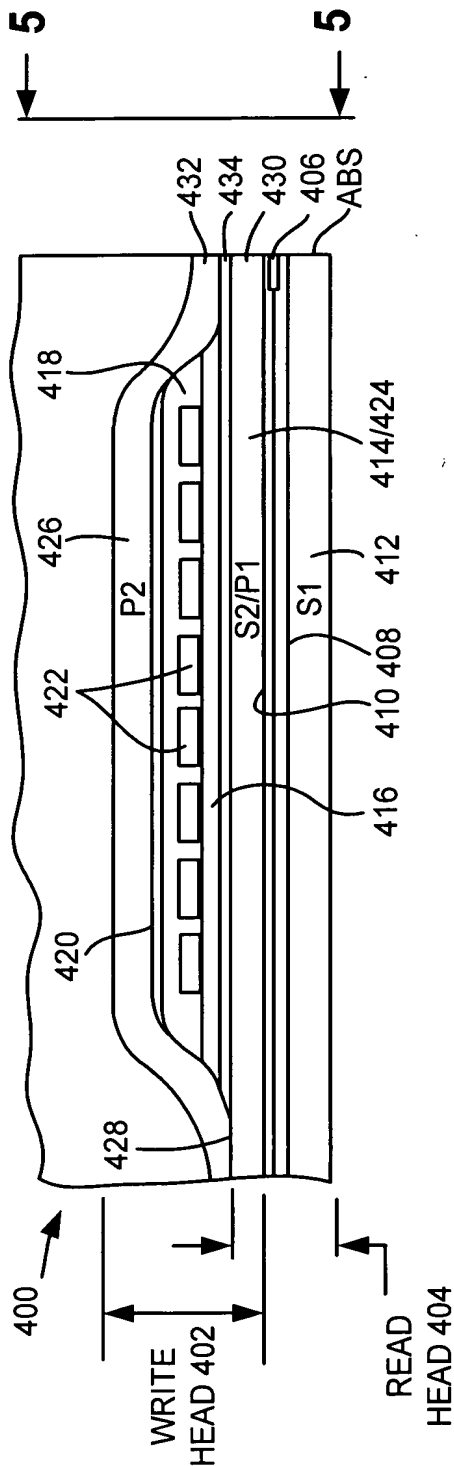


FIG. 4

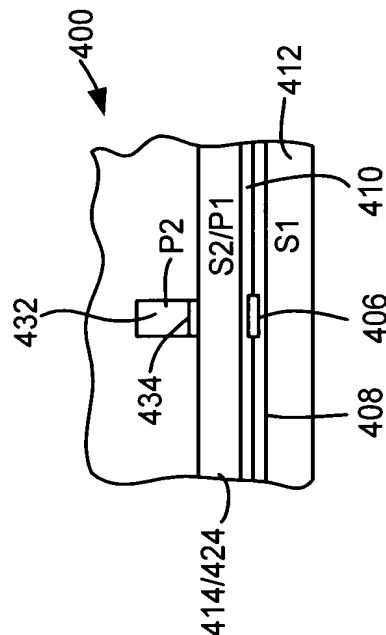


FIG. 5



FIG. 6

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	Head A	Head B	Head C	Head D	Head E	Head F	Head G	Standard
SL1	Al2O3 30A	Al2O3 30A	Al2O3 30A	Al2O3 30A	Al2O3 30A	Al2O3 30A	Al2O3 30A	Al2O3 30A
SL2	Ta 30A	Ta 30A	Ta 30A	Ta 30A	Ta 30A	Ta 30A	Ta 30A	NiFeCr 25A
SL3	NiFeCr 15A	NiFeCr 25A	NiFeCr 30A	NiFeCr 40A	NiFeCr 50A	NiFeCr 25A	NiFeCr 25A	NiFe 8A
SL4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	PtMn 30A
AP1	CoFe 17A	CoFe 17A	CoFe 17A	CoFe 17A	CoFe 17A	CoFe 17A	CoFe 17A	CoFe 17A
APC	Ru 8A	Ru 8A	Ru 8A	Ru 8A	Ru 8A	Ru 8A	Ru 8A	Ru 8A
AP2	Co 17A	Co 17A	Co 17A	Co 17A	Co 17A	Co 17A	Co 17A	Co 17A
SP1	CuO 18.8A	CuO 18.8A	CuO 18.8A	CuO 18.8A	CuO 18.8A	CuO 18.8A	CuO 18.8A	CuO 18.8A
FL1	CoFe 10A	CoFe 10A	CoFe 10A	CoFe 10A	CoFe 10A	CoFe 10A	CoFe 10A	CoFe 10A
FL2	NiFe 15A	NiFe 15A	NiFe 15A	NiFe 15A	NiFe 15A	NiFe 15A	NiFe 15A	NiFe 15A
Cap	Ta 40A	Ta 40A	Ta 40A	Ta 40A	Ta 40A	Ta 40A	Ta 40A	Ta 40A
dR/R	11.18	16.83	17.51	18.01	17.63	16.4	16.5	15
R	31	26.58	26.16	25.14	24.44	26.5		25
Magnetostriktion		19x10-6				24x10-6	13x10-6	12x10-7

FIG. 7

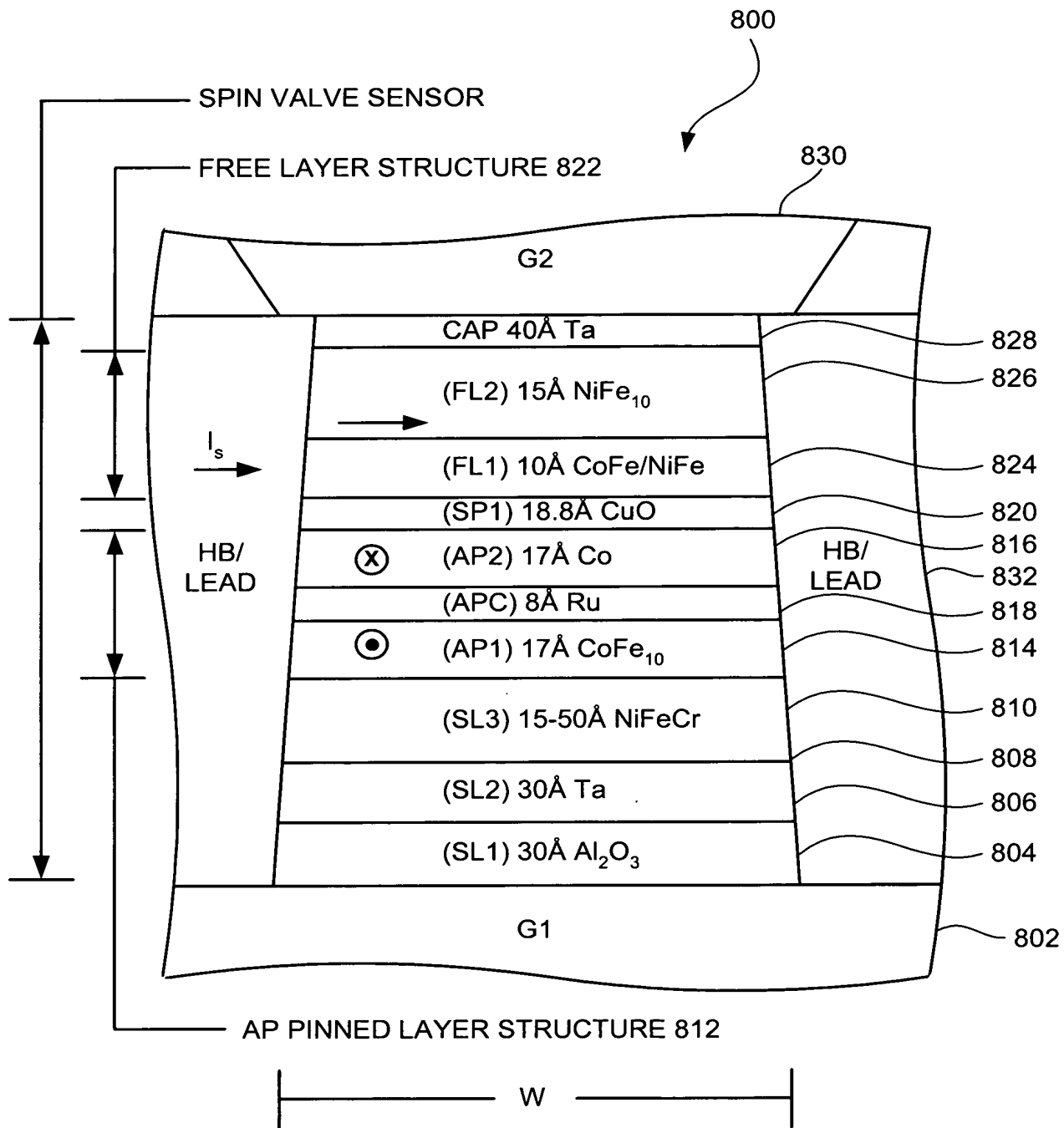


FIG. 8

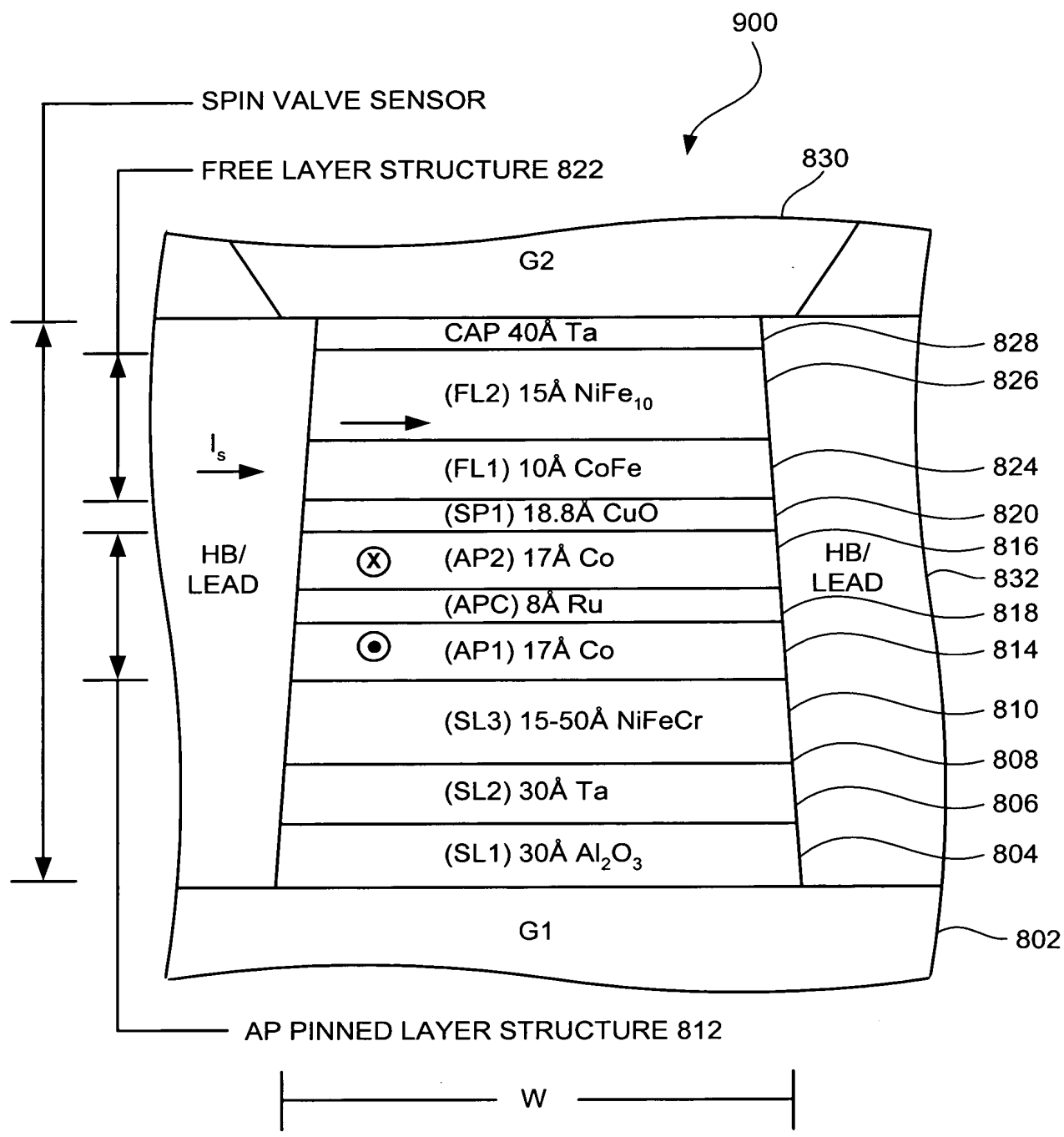


FIG. 9

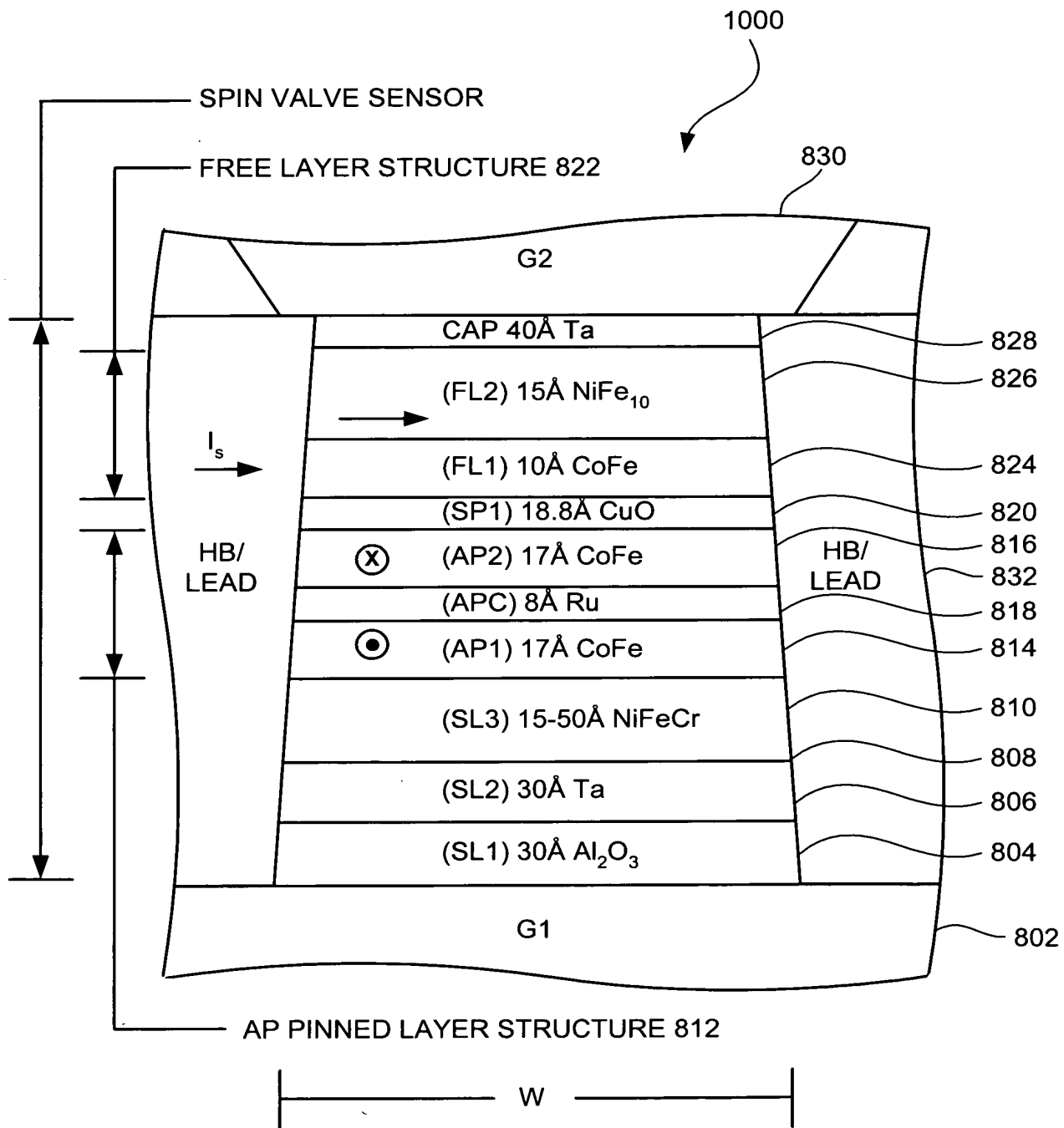


FIG. 10

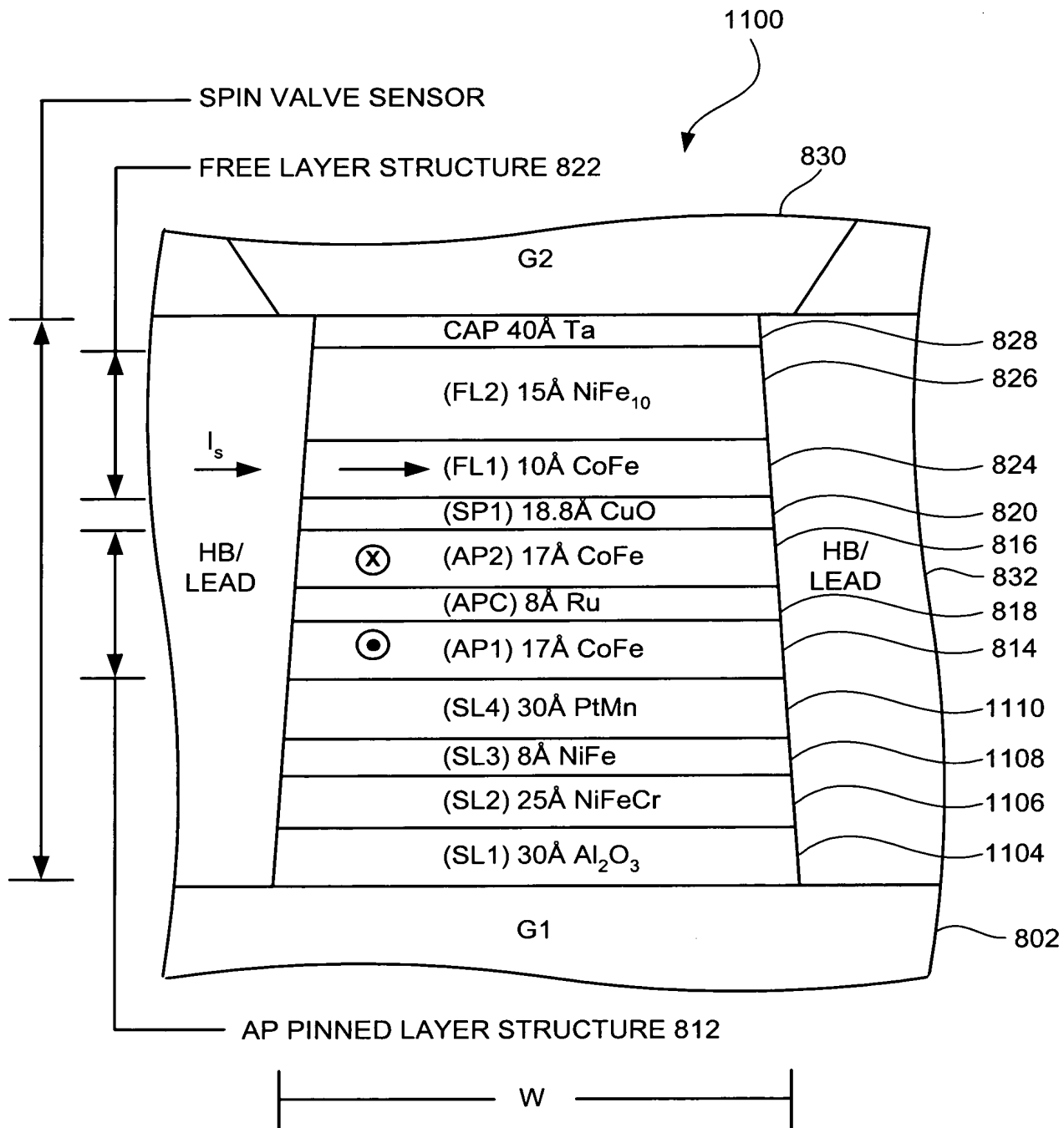


FIG. 11